

## Cable plug connectors NECL

**FESTO**



Type code

001	Series
NECL	Power plug connector

002	Type of connector
	Socket
S	Plug

003	Connection technology 1
L12	Socket M12x1 L-coded, EN 61076-2-111

004	Cable outlet right
G	Straight
W	Angled

005	Socket/plug connection pattern
4	4-pin
5	5-pin

006	Connection technology 2
C2	Screw terminal

007	Wire cross section [mm²]
Q10	2.5

## Datasheet

### General technical data

Based on standard	EN 61076-2-111
Type of mounting	Threaded

### Technical data – Electrical connection 1

Electrical connection 1, connector system	M12x1 L-coded to EN 61076-2-111
Electrical connection 1, function	Power supply
Electrical connection 1, connection type	Socket, Plugs
Electrical connection 1, design	Round
Electrical connection 1, number of connections/cores	4 ... 5
Electrical connection 1, tightening torque	0.6

### Technical data – Electrical connection 2

Cable outlet	Straight	Angled
Electrical connection 2, connector system	Screw terminal	
Electrical connection 2, tightening torque	0.4	
Permissible cable diameter	8 - 13 mm for electrical connection 1	
Nominal cross section conductor	≤2.5 mm <sup>2</sup>	
Conductor nominal cross section	AWG14	
Note on connection cross-section	Max. 1.5 mm <sup>2</sup> /AWG16 when using wire ferrule	
Note on cable outlet	–	Can be rotated 72°

### Technical data – Electrical

Nominal operating voltage DC	63
Operational voltage range DC	0 ... 63 V
Immunity to surge	1.5 kV
Current rating at 40° C	16 A
Pollution degree	3

### Materials

Material housing	PA
Material screw-type lock	Die-cast zinc, nickel-plated
Material electrical contact	Gold-plated copper alloy
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B2-L

### Operating and environmental conditions

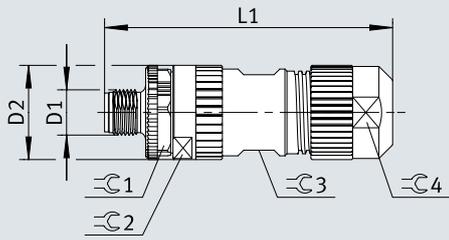
Ambient temperature	-40 ... 105°C
Corrosion resistance class CRC <sup>1)</sup>	1 - Low corrosion stress
Degree of protection	IP65, IP67
Approval	c UL us - Recognized (OL)
Certificate issuing authority	UL E474609

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

## Dimensions

Dimensions – Plug NECL-S-L12G...-C2-Q10, straight

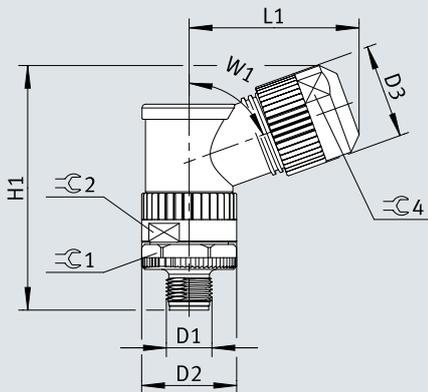
Download CAD data [www.festo.com](http://www.festo.com)



	D1	D2 ∅	L1	G1	G2	G3	G4
NECL-S-L12G4-C2-Q10	M12x1	25	75,8	22	23	20	23
NECL-S-L12G5-C2-Q10							

## Dimensions

Dimensions – Plug NECL-S-L12W...-C2-Q10, angled

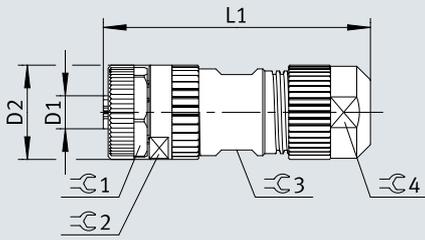
Download CAD data [www.festo.com](http://www.festo.com)

	D1	D2 ∅	D3 ∅	H1	L1	W1	≅C1	≅C2	≅C4
NECL-S-L12W4-C2-Q10	M12x1	25	25	64,9	44,8	70°	22	23	23
NECL-S-L12W5-C2-Q10									

## Dimensions

Dimensions – Socket NECL-L12G...-C2-Q10, straight

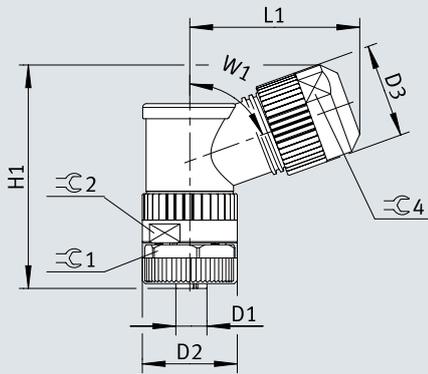
Download CAD data [www.festo.com](http://www.festo.com)



	D1	D2 ∅	L1	≡C1	≡C2	≡C3	≡C4
NECL-L12G4-C2-Q10	M12x1	25	70,3	22	23	20	23
NECL-L12G5-C2-Q10							

## Dimensions

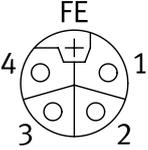
Dimensions – Socket NECL-L12W...-C2-Q10, angled

Download CAD data [www.festo.com](http://www.festo.com)

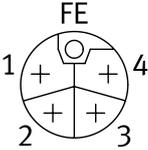
	D1	D2 ø	D3 ø	H1	L1	W1	≡C1	≡C2	≡C4
NECL-L12W4-C2-Q10	M12x1	25	25	59,3	44,8	70°	22	23	23
NECL-L12W5-C2-Q10									

## Ordering data

### Ordering data – Electrical connection 1, socket M12x1, L-coded according to EN 61076-2-111

	Electrical connection 1, connection type	Cable outlet	Product weight	Part no.	Type
	Socket	Straight	49.18 g	<b>8203701</b>	<b>NECL-L12G4-C2-Q10</b>
			50.37 g	<b>8166793</b>	<b>NECL-L12G5-C2-Q10</b>
		Angled	52.31 g	<b>8203702</b>	<b>NECL-L12W4-C2-Q10</b>
			53.58 g	<b>8166794</b>	<b>NECL-L12W5-C2-Q10</b>

### Ordering data – Electrical connection 1 plug M12x1, L-coded according to EN 61076-2-111

	Electrical connection 1, connection type	Cable outlet	Product weight	Part no.	Type
	Plugs	Straight	40.83 g	<b>8203699</b>	<b>NECL-S-L12G4-C2-Q10</b>
			42.89 g	<b>8166791</b>	<b>NECL-S-L12G5-C2-Q10</b>
		Angled	44.1 g	<b>8203700</b>	<b>NECL-S-L12W4-C2-Q10</b>
			45.69 g	<b>8166792</b>	<b>NECL-S-L12W5-C2-Q10</b>